IN THE CLAIMS

1. (original) A pair of cells comprising:

a first cell; and

a second cell,

wherein the first cell and the second cell are isogenic but for:

a gene of interest and a gene encoding a fluorescent protein;

wherein the first cell comprises a gene that encodes a first fluorescent protein having a first absorption spectrum and a first emission spectrum;

wherein the second cell comprises a gene that encodes a second fluorescent protein having a second absorption spectrum and a second emission spectrum; and

wherein either:

the first and second absorption spectra are not identical; and/or

the first and second emission spectra are not identical.

2. (original) The pair of cells of claim 1 wherein the first and second absorption spectra are not identical and the first and second emission spectra are not identical.

3. (original) The pair of cells of claim 1 wherein the cells are contained within the same undivided container.

4. (original) The pair of cells of claim 1 wherein the first cell is homozygously wild-type for the gene of interest and wherein the second cell is homozygously mutant for the gene of interest.

5. (original) The pair of cells of claim 1 wherein the gene of interest in the second cell is homozygously deleted.

6. (original) The pair of cells of claim 1 wherein the first cell comprises two wild-type alleles of the gene of interest and wherein the second cell comprises a wild-type allele and a mutant allele of the gene of interest, wherein the mutant allele is dominant.

7. (original) The pair of cells of claim 1 wherein the gene of interest is an oncogene and the first cell is homozygous for a mutant allele of the oncogene and wherein the second cell comprises a homozygous deletion of the mutant oncogene.

8. (original) The pair of cells of claim 1 wherein the first cell expresses the gene of interest and wherein the second cell does not express the gene of interest.

9. (original) The pair of cells of claim 1 wherein the first cell comprises a wild-type allele and a mutant allele of the gene of interest and the second cell is hemizygous for the wild-type allele of the gene of interest.

10. (original) The pair of cells of claim 1 wherein the first cell expresses a protein encoded by the gene of interest and wherein the second cell does not express a protein encoded by the gene of interest.

11. (original) The pair of cells of claim 1 wherein the first and second cells are mammalian cells.

12. (original) The pair of cells of claim 1 wherein the first and second cells are human cells.

13. (original) The pair of cells of claim 1 wherein the cells are cancer cells.

14. (original) The pair of cells of claim 13 wherein the cancer cells are selected from the group consisting of colon tumor cells and breast tumor cells.

15. (original) The pair of cells of claim 1 wherein the cells are HCT116 cells.

16. (original) The pair of cells of claim 1 wherein the cells are DLD-1 cells.

17. (original) The pair of cells of claim 1 wherein the first and second fluorescent proteins are selected from the group consisting of green fluorescent protein, red fluorescent protein, blue fluorescent protein, yellow fluorescent protein, and cyan fluorescent protein.

18. (original) The pair of cells of claim 1 wherein the gene of interest is Ras and wherein the Ras genotype of the first cell is *c-Ki-Ras*$^{WT/mutant}$ and wherein the Ras genotype of the second cell is *c-Ki-Ras*$^{WT/null}$.

19. (original) A pair of cells comprising:

a first cell wherein the Ras genotype of the first cell is *c-Ki-Ras*$^{WT/mutant}$ and wherein the first cell comprises a first gene that encodes a first fluorescent protein having a first absorption spectrum and a first emission spectrum; and

a second cell wherein the Ras genotype of the second cell is *c-Ki-Ras*$^{WT/null}$ and wherein the second cell comprises a second gene that encodes a second fluorescent protein having a second absorption spectrum that is not identical to the first absorption spectrum and a second emission spectrum that is not identical to the first emission spectrum, wherein the first and second cells are isogenic but for the Ras gene and the gene encoding a fluorescent protein.

20. (original) The pair of cells of claim 19 wherein the first fluorescent protein is blue fluorescent protein and the second fluorescent protein is yellow fluorescent protein.

21-52. (canceled)